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(54) WATER-BASED INK FOR INK JET RECORDING

(57) Abstract:

PROBLEM TO BE SOLVED: To obtain a water-based ink for ink jet recording, excellent in accuracy in the jetting direction and properties, of filling and feeding the ink to a nozzle and capable of carrying out the high-grade printing at a high speed by respectively regulating contact angles with an ink discharging nozzle surface and an ink flow passage materials.

SOLUTION: This water-based ink for ink jet recording is obtained by regulating contact angles at 25°C so as to respectively provide 30° and 250° with an ink discharging nozzle surface and an ink flow passage materials. The ink is prepared by including, e.g. a compound of the formula $R_1-O-(CH_2CH_2O)_hCH_2COOM$ [R_1 is a 6-14C (branched) alkyl; M is an alkali metallic ion, a quaternary ammonium, a quaternary phosphonium or an alkanolammonium; (h) is 3-12] or a compound of the formula [R_2 is a 5-7C (branched) alkyl] in an amount of 0.05-10wt.% based on the total amount of the ink therein.

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